



**Professional Development Conference
11 April 2003**

**Managing An Effective Navy Recreation
And Off-Duty Safety Program**



**Naval Safety
Center**

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Where Are We?

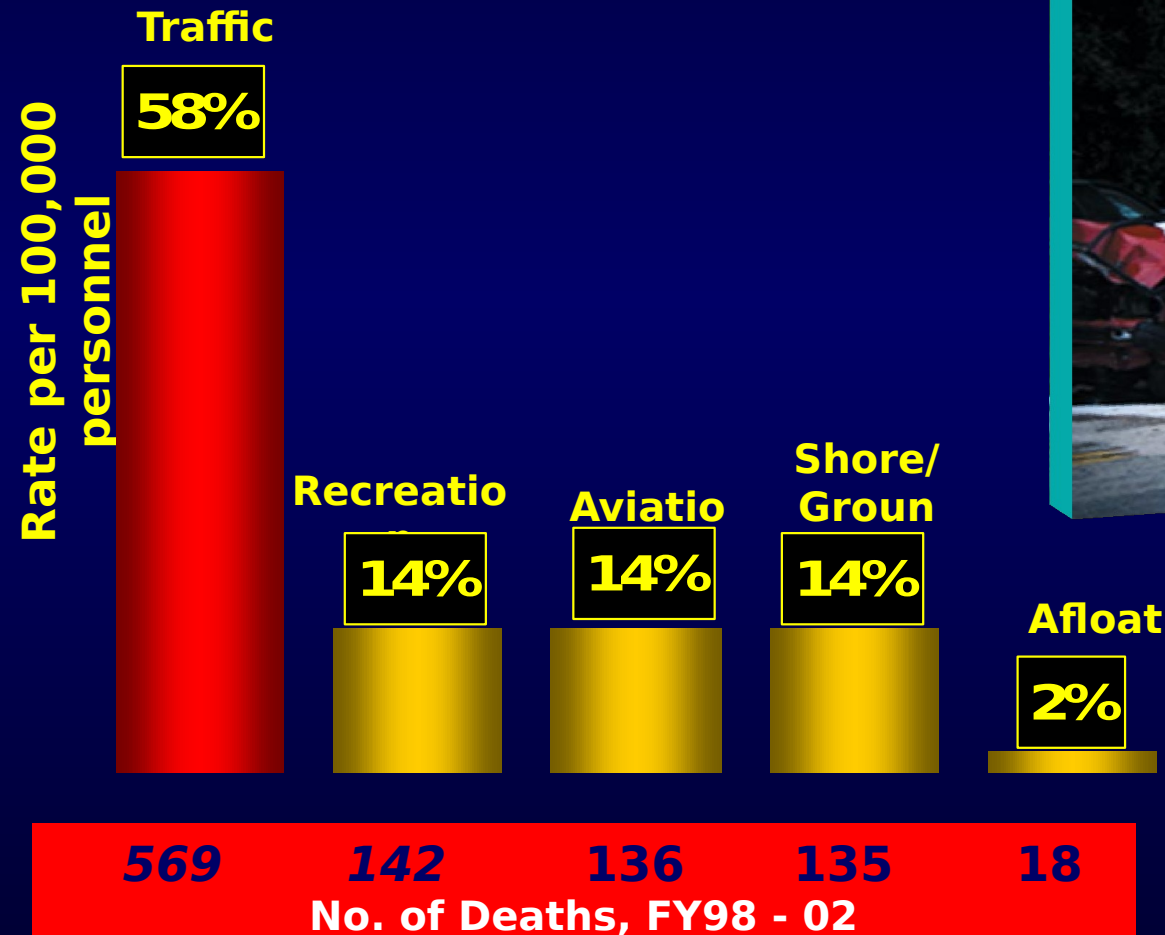


**During FY98-02, mishaps cost the
Navy and Marines:**

❖ \$3.7 BILLION

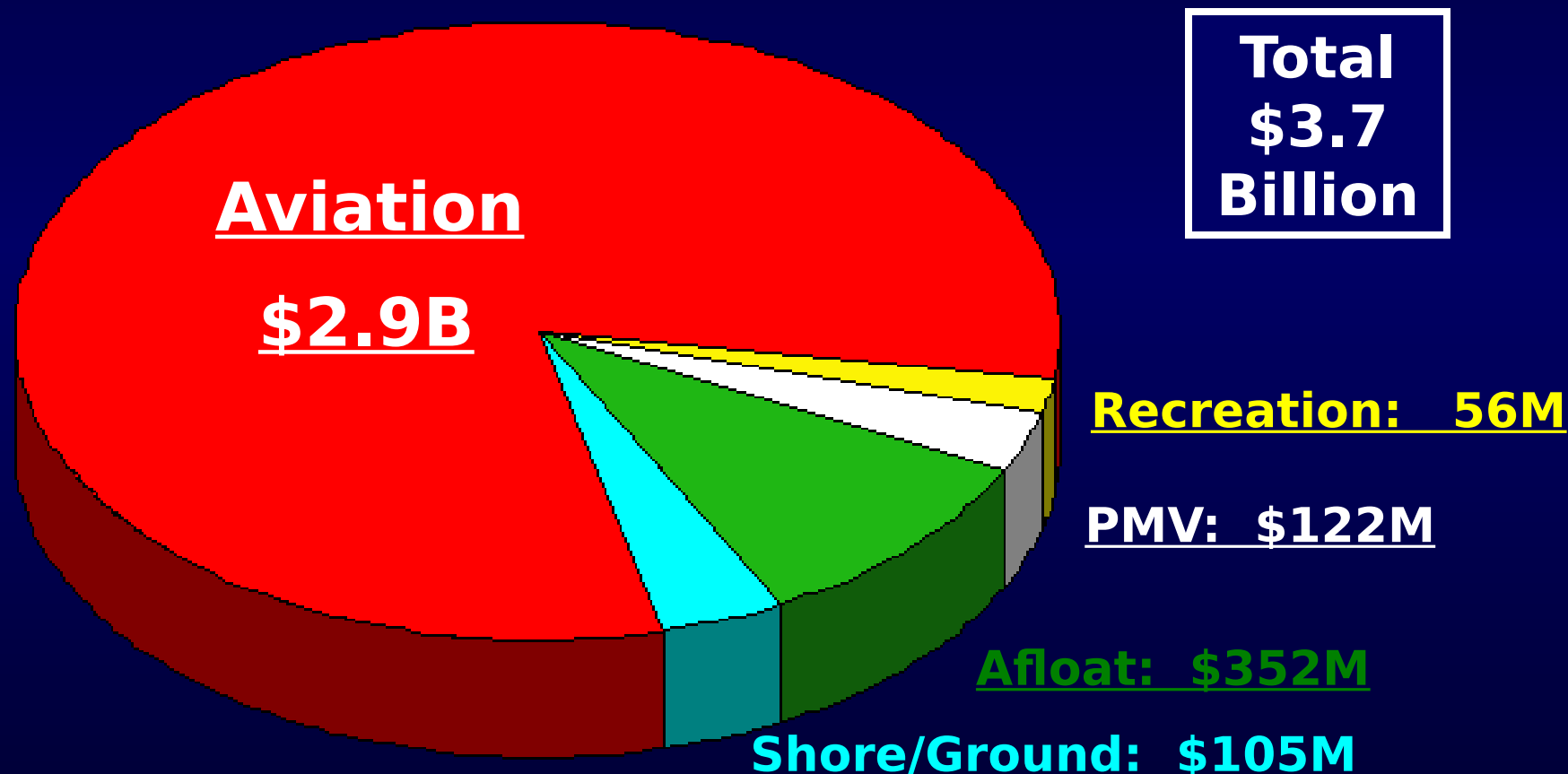
❖ 1,000 LIVES!

How People Died In Mishaps USN/USMC, FY98-02



Sailors & Marines Off-Duty Deaths = 72%

Cost of Mishaps Navy & Marine Corps FY 98-02



Sailors/Marines Off-Duty Alcohol-Related Deaths FY 98-02



■ **26%** ■



Top 3 Leading Causes Of Recreation Deaths

➤ Drowning

~ Boating, Swimming, SCUBA Diving

➤ Falls

~ Buildings, Cliffs, Snow Drifts

➤ Alcohol Poisoning/Drug Overdose



Top 3 Recreation Injury Producers

- ❖ **Basketball**
- ❖ **Softball/Baseball**
- ❖ **Football**



Recreation & Off-Duty Safety (RODS) Program, OPNAVINST 5100.25B

□ Title Change

□ Definitions

**□ MWR Safety
Program Coordinator**



RODS Program,



OPNAVIN

❖ **Split Responsibilities**

❖ **Self-Help Projects**

❖ **RODS Coordinator
Required Training:**

- **National Recreation And
Parks Association**
- **National Playground Safety**

Institute

- **NAVOSHENVTRACEN Related
Courses**

RODS

✓ **Identified RODS Issues For OSH Council Meetings**

✓ **ORM Principles:**

- Navy Sponsored Recreational High Risk Activities

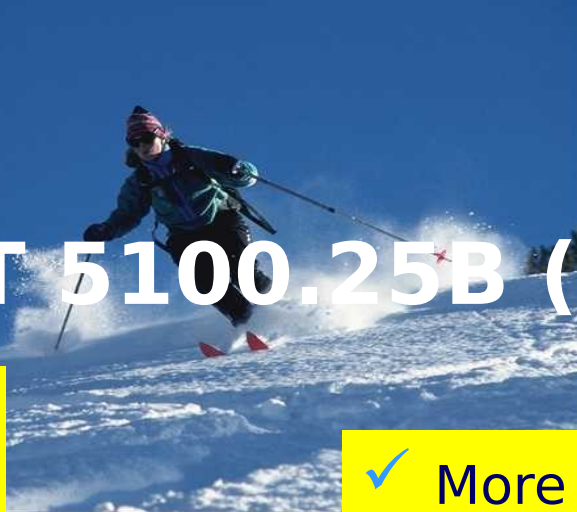
OPNAVINST 5100.25B (con't)

✓ **Tenant Commands & Forces Afloat:**

- RODS Appointment Letter
- Host-Activity's RODS Program

✓ **More Teeth In Management Reviews:**

- IG
- INSURV



RODS Program,

OPNAVINST 5100.25B (con't)



- **Facilities & Equipment Evaluation**

- **Major Acquisitions**

- **Fuel Burning Equipment**

- **More Frequent Inspections**

RODS Program,

- Hazard Abatement Funds

- Newcomer's Briefing

OPNAVINST 5100.25B (con't)



- New PPE Requirements

- Recordkeeping

Navy Data Collected On 16 Recent RODS Surveys Show

**88% Responsibilities
unclear IAW 5100.25A, para
5c**

**75% No Command priority
IAW 5100.25A**

**75% No record of specific
job training for operating
hobby shop equipment or
small boat qualification IAW
OPNAVINST 5100.25A, para
5c(5)(b)**



Navy Data Collected On 16 Recent RODS Surveys Show (con't)

69% Signs warning of hyperventilation and breath-holding not posted at swimming pools IAW BUPERSINST 1710.11C

69% No record of off-duty hazard awareness training IAW OPNAVINST 5100.25A, para 5c(5)(a)

63% Insufficient cushioning materials under playground equipment to prevent fall injuries IAW Consumer Product Safety Commission Playground Handbook, 10.1 - 10.6

Navy Data Collected On 16 Recent RODS Surveys Show (con't)

63% Basketball courts, secondary softball, football, or soccer fields not maintained IAW Sports Rulebooks

56% Poor compliance with requirements for use of personal protective equipment while playing racquetball on base IAW BUPERSINST 1710.11C

50% Electrical discrepancies such as circuits not labeled, panel box blocked, ground missing from extension cords IAW National Fire Protection Association Std 70



Findings



Mishaps

- Lack of Headwork
- Inexperience
- Non-use of PPE
- Alcohol

Involvement



Human Error

80% of Causal Factors!

RODS Program - What It Takes



➤ Oversight

- ✓ **Commanding Officer**
- ✓ **Regional**
- ✓ **Host**
- ✓ **RODS Coordinator**
- ✓ **ISIC**
- ✓ **IG**
- ✓ **INSURV**

➤ Inspection

- ✓ **Annual**
- ✓ **More Frequent**

➤ Training

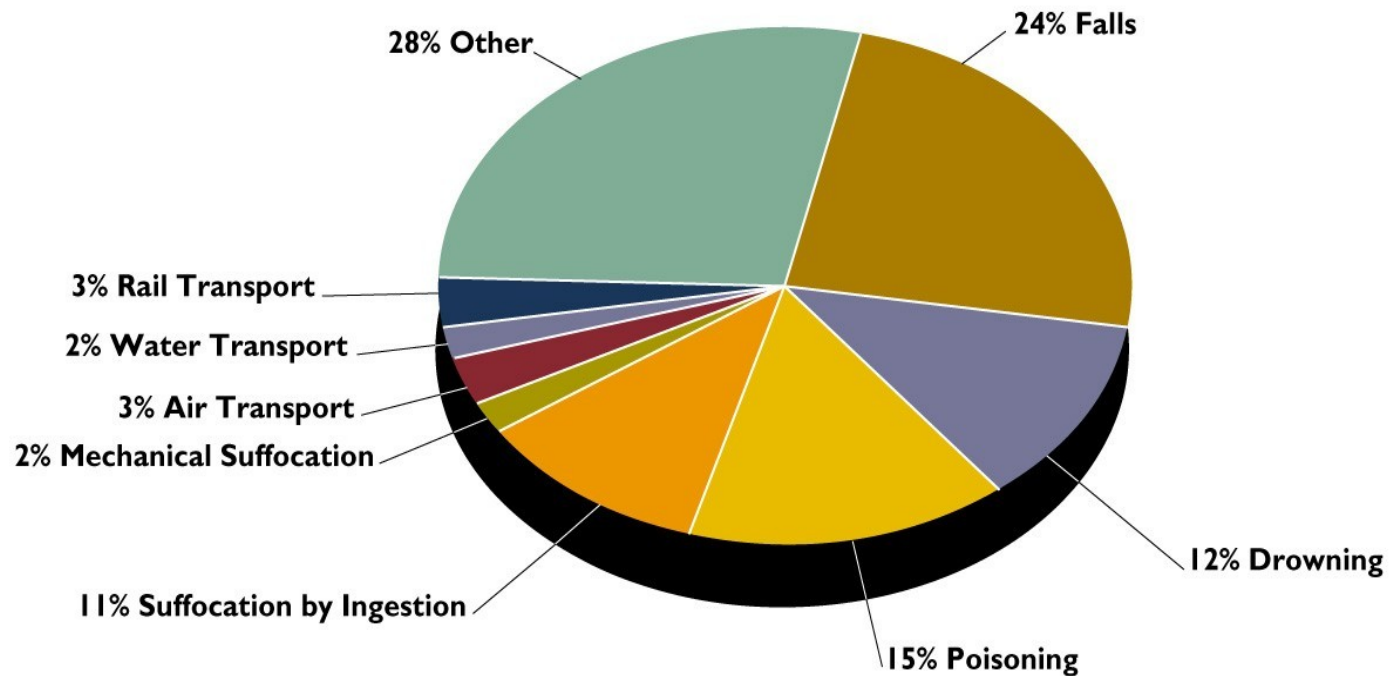
- ✓ **Quarterly**
- ✓ **Qualification:**
 - **Auto Hobby**
 - **Woodworking**
 - **Small Boats**
- ✓ **New Comer's**
- ✓ **Sports Briefs**

➤ Enforcement

- ✓ **MWR & Security:**
 - **PPE**
- ✓ **Housing:**
 - **Playgrounds**
 - **Gas Appliances**

U.S. Home Unintentional Deaths CY 2001 (19,000)

PRINCIPAL TYPES OF PUBLIC UNINTENTIONAL-INJURY DEATHS, UNITED STATES, 2001



Scenario



**Carbon Monoxide
The Silent Killer**

1. How To Self-Assess Your Command's RODS Services:

- a. Designation In Writing**
- b. RODS Input to OSH Manager For The Quarterly OSH/Safety Council Meetings**
- c. Evaluate Facilities Designs, Plans, Specifications And Equipment**
- d. Facility Inspections**
- e. More Frequent Inspections Of High-Hazard Areas**

- f. Abate Discrepancies**
- g. Quarterly Hazard Awareness Training**
- h. Automotive, Woodworking And Small Boat Qualification Training & Evaluation**
- i. Training Records**
- j. Investigate, Report And Record Recreation And Off-Duty Mishaps In Accordance With OPNAVINST 5102.1, Chapter 3 (for mishaps involving 1 - 4 lost workdays use WESS I)**

RODS

Program,

k. Separate Mishap Log From On-Duty and Civilians

l. Establish Liaison

OPNAVINST 5100.25B (con't)
m. Immediate Superior in Command (ISIC) Evaluation

n. PPE For Recreational Bicyclists In-Line Skates, Skateboards & Scooters

RODS Program Solutions

- ❖ **Safety Manning**
- ❖ **Enforce Standards**
- ❖ **Institutionalize ORM**
- ❖ **Improve Hazard
Awareness Training**
- ❖ **Leadership Commitment**

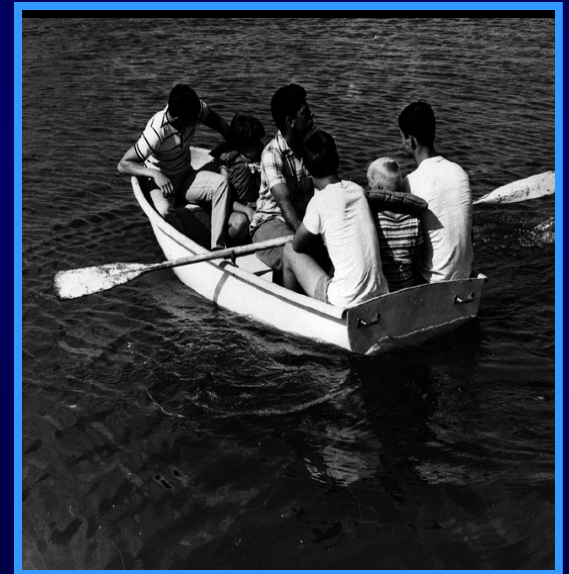
Part II

Applying ORM

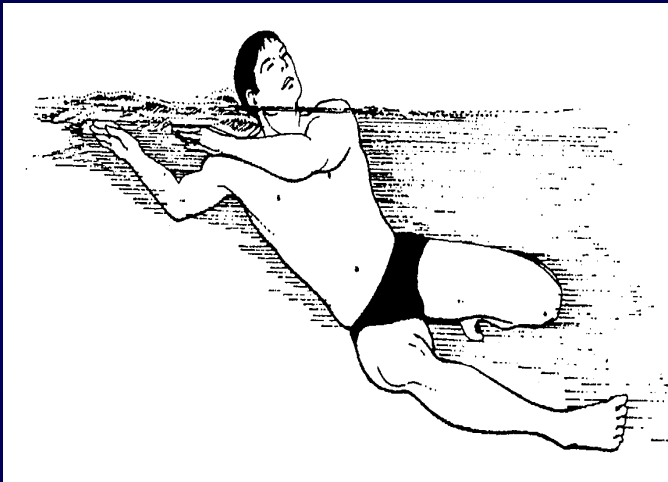
Off-Duty

ORM Five Steps

- **Identify Hazards**
- **Assess Hazards**
- **Make Risk Decisions**
- **Implement Controls**
- **Supervise/Evaluate**



Scenario



- **19 Year Old Sailor**
- **Class II Swimmer**
- **Breath-Holding**
And
Hyperventilating
- **Shallow Water**
Blackout

1. Identify Swimming Hazards

- oWater Clarity
- oInsufficient Water Depth
- oPoor Swimmers
- oShallow Water Blackout
- oAlcohol
- oThunderstorms



Risk Matrix

	Probability			
Severity	A	B	C	D
I	1	1	2	3
II	1	2	3	4
III	2	3	4	5
IV	3	4	5	5

CATEGORY I - The hazard may cause death, loss of facility/asset or result in grave damage to national interests.

CATEGORY II - The hazard may cause severe injury, illness, property damage, damage to national or service interests or degradation to efficient use of assets.

CATEGORY III - The hazard may cause minor injury, illness, property damage, damage to national, service or command interests or degradation to efficient use of assets.

CATEGORY IV - The hazard presents a minimal threat to personnel safety or health, property, national, service or command interests or efficient use of assets.

Probability of Occurrence + Severity

=

**Risk
Assessment
Code**

1 = Critical
2 = Serious
3 = Moderate
4 = Minor
5 = Negligible

2. Assess Swimming Hazards In Terms Of Risk

Hazards

- Insufficient Water Depth
- Poor Swimmers
- Thunderstorms

Risk Assessment

Serious/Probably (2)

Serious/Probably (2)

Critical/Probably (1)

2. Assess Swimming Hazards In Terms Of Risk (cont.)

Hazards

Risk Assessment

☐ Shallow Water
Blackout

Critical/Likely (1)

☐ Alcohol



Serious/Probably (2)

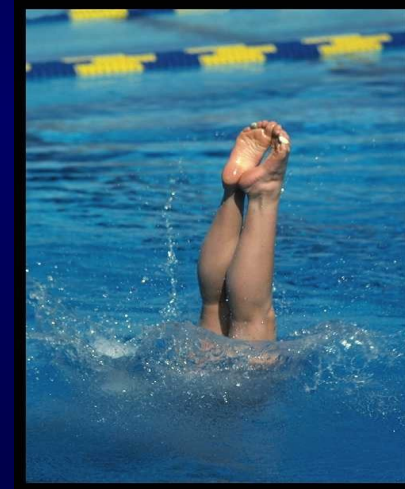
☐ Water Clarity

Critical/Likely (1)

3. Make Swimming Risk Decisions Based On Risks

Hazards

- **Shallow Water Blackout**
- **Water Clarity**
- **Poor Swimmers**
- **Thunderstorms**
- **Insufficient Water Depth**
- **Alcohol**



4. Implement Swimming Controls



Hazards

☀ *Shallow Water Blackout*

Controls

Place Signs Prohibiting

**Techniques -
To Take**

**Breath-Holding And
Hyperventilating
Recognize/Measures**

4. Implement Swimming Controls (cont.)

Hazards

- Thunderstorms
- Insufficient Water Depth
- Alcohol

Controls

Lifeguard Clear Pool For Determined Period Of Time

Check Water Depth For Diving Boards

Don't Allow Intoxicated Swimmers To Use Facility

5. Supervise/Evaluate

- ☐ **Monitor Effectiveness Of Controls**
- ☐ **Watch For Changes**



Take Away

◆ **What Can Hurt Me?**



◆ **What Can I Do About It?**

The End

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